Downtown and North Casper Tetrachloroethylene (PCE) Plumes Orphan Site Residential Air Testing Procedures February 2010

The following guidelines have been prepared by the Wyoming Department of Environmental Quality (DEQ) to provide you (the homeowner) with a general understanding of the activities and general timeframes that occur during and after indoor air sampling of your home

- The first step in the process is to agree to indoor air sampling by filling out and sending the DEQ self-addressed/stamped postcard that was mailed to you early February 2010 with a letter, site update, and sample of the easement.
- Once DEQ receives the postcard, we will: 1) draft an easement for your property; 2) have the document approved and signed by the Attorney General's Office; and 3) set up a time with you to deliver the easement and have you sign the document in front of a notary. During the visit, the representative from DEQ will schedule an appointment with you for indoor air sampling.
- The indoor air sampling event will begin with an interview by a representative from DEQ and/or DEQ's contractor. A building walk-through will be conducted at this time and questions will be asked regarding chlorinated solvent use/storage in the building. In addition, a detailed inventory of chlorinated solvent use/storage will be conducted for the areas near sampling locations.
- If possible, any chlorinated solvents used/stored in the building will be temporarily removed. Dry cleaning should not be brought into the home for at least two weeks prior to indoor air testing.
- A representative from DEQ and/or DEQ's contractor will place a small stainless steel air sampling canister in the lowest occupied area of the home. Twenty-four hours later, a representative from DEQ and/or DEQ's contractor will retrieve the canister.
- In addition to sampling with the air canister, we would like to conduct sub-slab sampling (this was not mentioned in the letter you received). If you approve, a small one inch diameter hole will be drilled through the slab of the basement, or lowest floor of the building, in order to allow the collection of a "sub-slab gas" sample into a sampling canister (similar to the indoor air canister). This sample is used to evaluate the concentration of vapors directly beneath the building.
- At the end of the week, canisters will be sent to a laboratory for analysis.
- DEQ will mail the test results to you approximately 4 weeks after the test.
- If the result of the test is below the state action level, no ventilation is necessary; however, periodic (e.g., annual) follow-up testing may need to be conducted. A representative from DEQ or DEQ's contractor will contact you to schedule the periodic tests.
- If the result of the test equals or is above the state action level for PCE in residential settings (8.1 micrograms per cubic meter, μg/m³), a DEQ representative will also call you with test results. If you elect to receive a ventilation system, a representative from DEQ and/or DEQ's contractor will call you to set up an appointment to perform diagnostic testing required for design of a ventilation system.

For More Information Contact: Wyoming Department of Environmental Quality Cherrie Perkins, Project Manager 307-777-7746